Contents—Volume 20, 1990

Current Microbiology

© Springer-Verlag New York Inc. 1990

Number 1, January 1990

S. Camprubi, J. Tomas, F. Muñoa, C. Madrid, and A. Juarez
Influence of Lipopolysaccharide on External Hemolytic Activity of *Salmonella typhimurium* and *Klebsiella pneumoniae* 1

Kauko K. Mäkinen, Eva Söderling, Salam A. Syed, and Pirrko-Liisa Mäkinen
Hydrolysis of γ-Glutamyl Linkages by *Fusobacterium nucleatum* 5

Antonio Cobos, María F. Fernández, Pablo E. Hernández, and Bernabé Sanz
Transposon-generated Tn*10* Insertion Mutations at the *aro* Genes of *Escherichia coli* K-12 13

Anthony H. Rogers, Peter S. Zilm, Neville J. Gully, and Andrea L. Pfennig
Some Aspects of Arginine Assimilation in a Strain of *Streptococcus sanguis* 19

Tan-Chi Huang and Te-Jin Chow
Characterization of the Rhythmic Nitrogen-fixing Activity of *Synechococcus* sp. RF-1 at the Transcription Level 23

Floyd C. Knoop, David L. Dworzack, Robert J. Martig, Antonio V. Sterpetti, Robert T. Bailey, and Richard D. Schultz
Bonding of Ofloxacin to Polytetrafluoroethylene Suture and Colonization by *Staphylococcus aureus* 27

Yankel M. Kupersztoch, Frances E. Powell, and Luz-Maria Guzman-Verduzco
Conditional Lysis of *Escherichia coli* by the Fusion of Extracellular (ST_A) to Periplasmic (LT_B) Enterotoxins: Apparent Phenotypic Suppression of Lactose Permease 31

Steven M. Lipson, Patrick Costello, Susan Forlenza, Bruce Agins, and Katarina Szabo
Enhanced Detection of Cytomegalovirus in Shell Vial Cell Culture Monolayers by Preinoculation Treatment of Urine with Low-Speed Centrifugation 39

Geoffrey C. Sutton, Peter J. Quinn, and Nicholas J. Russell
The Effect of Salinity on the Composition of Fatty Acid Double-Bond Isomers and *sn*-1/*sn*-2 Positional Distribution in Membrane Phospholipids of a Moderately Halophilic Eubacterium 43

Gregor Reid, Jacqueline A. McGroarty, P.A. Gil Domingue, Anthony W. Chow, Andrew W. Bruce, Andrea Eisen, and J. William Costerton
Coaggregation of Urogenital Bacteria in Vitro and in Vivo 47

Garard Barroso, Jean-Claude Salvado, and Jacques Labarère
Influence of Genetic Markers and of the Fusing Agent Polyethylene Glycol on Chromosomal Gene Transfer in *Spiroplasma citri* 53

George T. Javor
Morphological Changes in Thioglycerol-treated *Escherichia coli* 57

Harry J. Flint, Carol A. McPherson, Gorazd Avgustin, and Colin S. Stewart
Use of Cellulase-encoding Gene Probe to Reveal Restriction Fragment Length Polymorphisms among Ruminal Strains of *Bacteroides succinogenes* 63

Kauko K. Mäkinen, Salam A. Syed, Sergio L. Salvador, and Pirkko-Liisa Mäkinen
Hydrolysis of Leu-Gly Bond of Phenylazobenzyloxycarbonyl-L-Pro-L-Leu-Gly-L-Pro-D-Arg (a substrate of microbial collagenases) by Treponemes Isolated from the Subgingival Plaque of Periodontitis Patients 69

Number 2, February 1990

Bernard Ollivier and Jean-Louis Garcia
Thermophilic Methanogenesis from Pectin by a Mixed Defined Bacterial Culture 77

Isidre Gibert, Virtudes Villegas, and Jordi Barbé
Expression of Heat-labile Enterotoxin Genes is under Cyclic AMP Control in *Escherichia coli* 83

Hanna Levanony and Yaov Bashan
Avid-Biotin Complex Incorporation into Enzyme-Linked Immunosorbent Assay (ABELISA) for Improving the Detection of *Azospirillum brasilense* Cd 91

Rustom S. Mody, Valiollah Heidarynejad, Alka M. Patel, and Prafulla J. Dave
Isolation and Characterization of *Serratia marcescens* Mutants Defective in Prodigiosin Biosynthesis 95

Rolf B. Henschke and Friedrich R.J. Schmidt
Plasmid Mobilization from Genetically Engineered Bacteria to Members of the Indigenous Soil Microflora in Situ 105

Ajith V. Kamath and C.S. Vaidyanathan
Structural Requirements for the Induction and Inhibition of 2,3-Dihydroxybenzoic Acid Decarboxylase of *Aspergillus niger* 111

N. Venkateswara Rao, R. Subhash Reddy, and K. Sivarama Sastry
An Inducible Allantoinase and the Specific Toxicity of Parabanic Acid on Allantoin Utilization in a *Rhizobium* Species..... 115

Moshe Flaishman, Zahir Eyal, Christophe Voisard, and Dieter Haas
Suppression of *Septoria tritici* by Phenazine- or Siderophore-deficient Mutants of *Pseudomonas* 121

J.E. Bylund, J.K. Dyer, D.E. Feely, and E.L. Martin
Alkaline and Acid Phosphatases from the Extensively Halotolerant Bacterium *Halomonas elongata*..... 125

Judy A. Arraj, Te-Hui Wu, and M.G. Marinus
Expression of a DNA Methylation (*dam*) Gene in *Escherichia coli* K-12..... 133

Number 3, March 1990

Efrat Meir and Ezra Yagil
Regulation of *Escherichia coli* Catalases by Anaerobiosis and Catabolite Repression..... 139

Bina R. Mody, Meena O. Bindra, and Vinod V. Modi
Capsule Development and Structural Characterization of Acidic Extracellular Polysaccharides Secreted by Cowpea Rhizobia 145

N.M. Al-Taho, A. Cornish, and P.J. Warner
Molecular Cloning of the Methanol Dehydrogenase Structural Gene from *Methylosinus trichosporium* OB3b 153

Umesh D. Patel, Sangeeta R. Bapat, and Prafulla J. Dave
Induction of Aflatoxin Biosynthesis in *Aspergillus parasiticus* by Ascorbic Acid-mediated Lipid Peroxidation 159

Greta Bentzen and Arnold L. Demain
Studies on Gramicidin S-mediated Suicide during Germination Outgrowth of *Bacillus brevis* Spores 165

Janice M. Matthews-Greer, Dawn E. Robertson, Linda B. Gilleland, and Harry E. Gilleland, Jr.
Pseudomonas aeruginosa Outer Membrane Protein F Produced in *Escherichia coli* Retains Vaccine Efficacy..... 171

L. Ma, E. Deitch, R. Specian, E. Steffen, and R. Berg
Translocation of *Lactobacillus murinus* from the Gastrointestinal Tract 177

Gregor Reid, Andrew W. Bruce, Miguel Llano, J.A. McGroarty, and Michael Blake
Bacterial Aggregation in Sepsis 185

A. Sage, A. Linker, L.R. Evans, and T.G. Lessie
Hexose Phosphate Metabolism and Exopolysaccharide Formation in *Pseudomonas cepacia* 191

Number 4, April 1990

Clas Lönner, Katarina Preve-Åkesson, and Siv Ahrné
Plasmid Contents of Lactic Acid Bacteria Isolated from Different Types of Sour Doughs..... 201

Manuel J. Mota and José A. Teixeira
Utilization of an External Loop Bioreactor for the Isolation of a Flocculating Strain of *Kluyveromyces marxianus* 209

Richard H. Lambert and J.R. Garcia
Evidence of Morphology-specific Isozymes in *Candida albicans* 215

Takashi Kamada, Hiroko Hirami, Tohru Sumiyoshi, Shigeru Tanabe, and Tsuneo Takemaru
Extragenic Suppressor Mutations of a β-Tubulin Mutation in the Basidiomycete *Coprinus cinereus*: Isolation and Genetic and Biochemical Analyses 223

Manuel Martínez-Luque, Francisco J. Caballero, and Francisco Castillo
Regulation of Nitrate Reductase in *Rhodobacter capsulatus* E1F1 229

Stephen E. Craven
The Effect of the pH of the Sporulation Environment on the Heat Resistance of *Clostridium perfringens* Spores..... 233

John Thompson, Robert J. Harr, and Jacob A. Donkersloot
N^5-(L-1-Carboxyethyl)-L-Ornithine : $NADP^+$ Oxidoreductase in *Streptococcus lactis*: Distribution, Constitutivity, and Regulation 239

Isamu Yamamoto, Masato Hinakura, Sachiko Seki, Yasuhide Seki, and Hiroyuki Kondo
Anaerobic Induction of Trimethylamine N-Oxide Reductase and Cytochromes by Dimethyl Sulfoxide in *Escherichia coli*... 245

Jayne E. Ellis, Alan G. Williams, and David Lloyd
Formate and Glucose Stimulation of Methane and Hydrogen Production in Rumen Liquor 251

Eugenie Floderus and Lars E. Linder
Localization of Aminopeptidases in *Streptococcus sanguis* strain 903 255

Vilma K. Jansons and Alexandra Soggiu
Clofazimine and Liposomes Enhance the Susceptibility of Intracellular *Mycobacterium avium* toward Rifabutin 261

E.M. Barichievich and R.E. Calza
Media Carbon Induction of Extracellular Cellulase Activities in *Neocallimastix frontalis* Isolate EB188 265

Jacob Yashphe, Hemant Chikarmane, Maria Iranzo, and Harlyn O. Halvorson
Phosphatases of *Acinetobacter lwoffi*. Localization and Regulation of Synthesis by Orthophosphate 273

Number 5, May 1990

R.N. Chakraborty, H.N. Patel, and S.B. Desai
Isolation and Partial Characterization of Catechol-Type Siderophore from *Pseudomonas stutzeri* RC 7 283

Sigridur Hjörleifsdottir, Sulojana Seevaratnam, Olle Holst, and Bo Mattiasson
Effects of Complete Cell Recycling on Product Formation by *Lactobacillus casei* ssp. *rhamnosus* in Continuous Cultures .. 287

Roberto Cornax, Miguel A. Moriñigo, P. Romero, and Juan J. Borrego
Survival of Pathogenic Microorganisms in Seawater 293

Jian-Guo Xu, Tai-Su Quan, Dong-Lou Xiao, Tang-Ring Fan, Le-Mi Li, Chang-Ao Wang, Wei Li, and Han-Ming Liu
Isolation and Characterization of *Escherichia coli* O157 : H7 Strains in China 299

George A. Somkuti and Terrance L. Johnson
Cholesterol Uptake by *Propionibacterium freudenreichii* 305

Diane E. Taylor and Richard K. Sherburne
Characterization of Maxi- and Mini-Derivatives of the IncHI1 Plasmid R27 311

R. Creti, L. Fenicia, and P. Aureli
Occurrence of *Clostridium botulinum* in the Soil of the Vicinity of Rome 317

R. Scott Pore
Antibiotic Susceptibility Testing of *Candida albicans* by Flow Cytometry 323

Negash Belay, Basavapatna S. Rajagopal, and Lacy Daniels
Effects of Alkyltin Compounds on Hydrogen-Oxidizing Anaerobic Bacteria 329

Augustin Svoboda and Petr Ouředníček
Yeast Protoplasts Immobilized in Alginate: Cell Wall Regeneration and Reversion to Cells 335

Yuwen Hong, J.J. Pasternak, and Bernard R. Glick
Purification of *Pseudomonas fluorescens* subsp. *cellulosa Endoglucanases* Produced in *Escherichia coli* 339

Tulsi D. Chugh, George M. Bahr, Sahar A. Essa, and Gary J. Burns
Adherence of *Staphylococcus epidermidis* to Pharyngeal Epithelial Cells Mediated by Lipoteichoic Acid 343

Jeffrey W. Bier and Thomas K. Sawyer
Amoebae Isolated from Laboratory Eyewash Stations 349

Number 6, June 1990

Norihisa Goto, Atsuko Moribayashi, Juh-ichi Maeyama, and Yoshiko Arimitsu
Biological Activities of Lipid Components of *Leptospira interrogans* Serovar *copenhageni* Avirulent Strain Shibaura 353

Michael F. Dunn and Arthur L. Karr
Isolation of an Extracellular Polysaccharide (EPS) Depolymerase Produced by *Bradyrhizobium japonicum* 359

Wolfgang Schwabe, Thomas Hübschmann, Martin Meixner, Andreas Weihe, and Thomas Börner
Transcription and in vivo Expression of a *Microcystis aeruginosa* Plasmid 365

Nandini Mago and G.K. Khuller
Biosynthesis of Major Phospholipids in *Candida albicans* 369

Yuval Shoham and Arnold L. Demain
Stabilization of a Plasmid-Encoded LacZ Phenotype in *Bacillus subtilis* 373

Tsuneo Kaneshiro and James J. Nicholson
Bradyrhizobium japonicum Subspecies (USDA 110 and 26) Characterized by Fixed-Nitrogen Uptake and Symbiotic Indoleacetic Acid Production 381

J.M. Lynch
Longevity of Bacteria: Considerations in Environmental Release 387

Craig R. Julseth and William E. Inniss
Heat Shock Protein Induction and the Acquisition of Thermotolerance in the Psychrotrophic Yeast *Trichosporon pullulans* 391

John L. Johnson, Carol Phelps, Lisa Barroso, Mary D. Roberts, David M. Lyerly, and Tracy D. Wilkins
Cloning and Expression of the Toxin B Gene of *Clostridium difficile* 397

Erratum 403